

09/960226  
STN Search Summary

=> d his

FILE 'REGISTRY' ENTERED AT 16:21:34 ON 21 SEP 2004

L1 1 S 3.2.1.114

FILE 'CAPLUS' ENTERED AT 16:21:49 ON 21 SEP 2004

L2 159 S L1  
L3 2769 S ((?ALPHA OR A) (W) MANNOSIDASE) OR (MANNOSIDASE (W) II)  
L4 2780 S L2 OR L3  
L5 5 S L2 AND (CRYSTAL OR XRAY)  
L6 37 S L4 AND (CRYSTAL OR XRAY)  
L7 32 S L6 NOT L5  
L8 61 S L2 AND STRUCTUR?  
L9 56 S L8 NOT L5  
L10 1 S L9 AND RESOLUT?  
L11 0 S L9 AND SOLID  
L12 0 S L2 AND (ACTIVE ADJ SITE)  
L13 0 S L2 AND (BINDING ADJ SITE)  
L14 5 S L2 AND ((BINDING OR ACTIVE) (W) SITE)  
L15 3 S L5 NOT L14  
L16 79 S L3 AND ((BINDING OR ACTIVE) (W) SITE)

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 82047-77-6 REGISTRY  
CN Mannosidase, exo-1,3-1,6-.alpha.- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN .alpha.-D-mannosidase II  
CN .alpha.-Mannosidase II  
CN .alpha.1-3,6-Mannosidase  
CN EC 3.2.1.114  
CN exo-1,3-1,6-.alpha.-Mannosidase  
CN Mannosidase II

=> d 1-5

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:925020 CAPLUS  
TI Insights into the Mechanism of Drosophila melanogaster Golgi  
.alpha.-Mannosidase II through the Structural Analysis of Covalent  
Reaction Intermediates  
AU Numao, Shin; Kuntz, Douglas A.; Withers, Stephen G.; Rose, David R.  
SO Journal of Biological Chemistry (2003), 278(48), 48074-48083  
  
L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:880169 CAPLUS  
TI Comparison of Kifunensine and 1-Deoxymannojirimycin Binding to Class I and  
II .alpha.-Mannosidases Demonstrates Different Saccharide Distortions in  
Inverting and Retaining Catalytic Mechanisms  
AU Shah, Niket; Kuntz, Douglas A.; Rose, David R.  
SO Biochemistry (2003), 42(47), 13812-13816

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:889383 CAPLUS  
 TI Crystal structure of Drosophila .alpha.-mannosidase II and swainsonine complexes, its use for identifying mannosidase II activity-modulating ligands and therapeutic applications  
 IN Rose, David Richard; Kuntz, Douglas Arthur; Van Den Elsen, Jean Maria Hubertus

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002172670	A1	20021121	US 2001-960226	20010921
PRAI	US 2000-234879P	P	20000922		
	US 2001-263458P	P	20010123		

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:532729 CAPLUS  
 TI Structure of Golgi .alpha.-mannosidase II: a target for inhibition of growth and metastasis of cancer cells  
 AU Van den Elsen, Jean M. H.; Kuntz, Douglas A.; Rose, David R.  
 SO EMBO Journal (2001), 20(12), 3008-3017

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:821580 CAPLUS  
 TI Fluorescent protein sensors for measuring the pH of a biological sample  
 IN Tsien, Roger Y.; Llopis, Juan; Wachter, Rebekka M.; Remington, S. James

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6150176	A	20001121	US 1998-172063	19981013
	US 6140132	A	20001031	US 1998-94359	19980609
	WO 9964592	A2	19991216	WO 1999-US12850	19990608
	WO 9964592	A3	20000615		
	US 6608189	B1	20030819	US 2000-602641	20000622
	US 6627449	B1	20030930	US 2000-704463	20001031
	US 2003212265	A1	20031113	US 2003-457982	20030609
PRAI	US 1998-94359	A2	19980609		
	US 1998-172063	A	19981013		
	US 2000-602641	A1	20000622		

=> d 1-32

L7 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:544672 CAPLUS  
 TI Structure of Mouse Golgi .alpha.-Mannosidase IA Reveals the Molecular Basis for Substrate Specificity among Class 1 (Family 47 Glycosylhydrolase) .alpha.1,2-Mannosidases  
 AU Tempel, Wolfram; Karaveg, Khanita; Liu, Zhi-Jie; Rose, John; Wang, Bi-Cheng; Moremen, Kelley W.  
 SO Journal of Biological Chemistry (2004), 279(28), 29774-29786

L7 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2003:419134 CAPLUS  
 TI Mapping the conformational itinerary of .beta.-glycosidases by X-ray crystallography  
 AU Davies, G. J.; Ducros, V. M.-A.; Varrot, A.; Zechel, D. L.  
 SO Biochemical Society Transactions (2003), 31(3), 523-527

L7 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2003:380748 CAPLUS  
 TI Crystal structures of 4-.alpha.-glucanotransferase from  
 Thermococcus litoralis and its complex with an inhibitor  
 AU Imamura, Hiromi; Fushinobu, Shinya; Yamamoto, Masaki; Kumasaka, Takashi;  
 Jeon, Beong-Sam; Wakagi, Takayoshi; Matsuzawa, Hiroshi  
 SO Journal of Biological Chemistry (2003), 278(21), 19378-19386

L7 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2003:193791 CAPLUS  
 TI The structure of bovine lysosomal .alpha.-mannosidase  
 suggests a novel mechanism for low-pH activation  
 AU Heikinheimo, Pirkko; Helland, Ronny; Leiros, Hanna-Kirsti Schroder;  
 Leiros, Ingar; Karlsen, Solveig; Evjen, Gry; Ravelli, Raimond; Schoehn,  
 Guy; Ruigrok, Rob; Tollersrud, Ole-Kristian; McSweeney, Sean; Hough,  
 Edward  
 SO Journal of Molecular Biology (2003), 327(3), 631-644

L7 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:708312 CAPLUS  
 TI Understanding protein structure-function relationships in family 47  
 .alpha.-1,2-mannosidases through computational docking of ligands  
 AU Mulakala, Chandrika; Reilly, Peter J.  
 SO Proteins: Structure, Function, and Genetics (2002), 49(1), 125-134

L7 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:34613 CAPLUS  
 TI Structural basis for catalysis and inhibition of N-glycan processing class  
 I .alpha.1,2-mannosidases  
 AU Vallee, Francois; Karaveg, Khanita; Herscovics, Annette; Moremen, Kelley  
 W.; Howell, P. Lynne  
 SO Journal of Biological Chemistry (2000), 275(52), 41287-41298

L7 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:156507 CAPLUS  
 TI Crystal structure of a class I .alpha.1,2-mannosidase involved  
 in N-glycan processing and endoplasmic reticulum quality control  
 AU Vallee, Francois; Lipari, Francesco; Yip, Patrick; Sleno, Barry;  
 Herscovics, Annette; Howell, P. Lynne  
 SO EMBO Journal (2000), 19(4), 581-588

L7 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:52738 CAPLUS  
 TI Subcellular and tissue Mn compartmentation in bean leaves under Mn  
 toxicity stress  
 AU Gonzalez, Alonso; Lynch, Jonathan P.  
 SO Australian Journal of Plant Physiology (1999), 26(8), 811-822

L7 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:115453 CAPLUS  
 TI Purification, crystallization and preliminary x-ray crystallographic  
 analysis of recombinant murine Golgi mannosidase IA, a class I .  
 alpha.-mannosidase involved in Asn-linked  
 oligosaccharide maturation  
 AU Vallee, Francois; Lal, Anita; Moremen, Kelley W.; Howell, P. Lynne  
 SO Acta Crystallographica, Section D: Biological Crystallography (1999),  
 D55(2), 571-573

L7 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1997:768584 CAPLUS  
 TI Crystallization and preliminary x-ray analysis of the class 1  
 .alpha.1,2-mannosidase from *Saccharomyces cerevisiae*  
 AU Dole, Kiran; Lipari, Francesco; Herscovics, Annette; Howell, P. Lynne  
 SO *Journal of Structural Biology* (1997), 120(1), 69-72

L7 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1992:485902 CAPLUS  
 TI Crystallization and preliminary x-ray study of minor glucoamylase from  
*Aspergillus awamori* variant X-100/D27  
 AU Golubev, A. M.; Neustroev, K. N.; Aleshin, A. E.; Firsov, L. M.  
 SO *Journal of Molecular Biology* (1992), 226(1), 271-2

L7 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1980:72721 CAPLUS  
 TI A spectroscopic investigation of swainsonine: an .alpha.-  
 mannosidase inhibitor isolated from *Swainsona canescens*  
 AU Colegate, Steven M.; Dorling, Peter R.; Huxtable, Clive R.  
 SO *Australian Journal of Chemistry* (1979), 32(10), 2257-64

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1998:737867 CAPLUS  
 TI 3D reconstruction of mannosidase II from single particle distributions:  
 noise reduction approaches for higher resolution  
 AU Ottensmeyer, F. P.; Fernandes, A. B.; Timmer, M.; Kroft, J.; Varga, K.;  
 Moremen, K. W.  
 SO *Electron Microscopy 1998, Proceedings of the International Congress on  
 Electron Microscopy, 14th, Cancun, Mex., Aug. 31-Sept. 4, 1998 (1998),  
 Volume 1, 731-732. Editor(s): Calderon Benavides, Hector A.; Jose  
 Yacamán, Miguel. Publisher: Institute of Physics Publishing, Bristol, UK.*